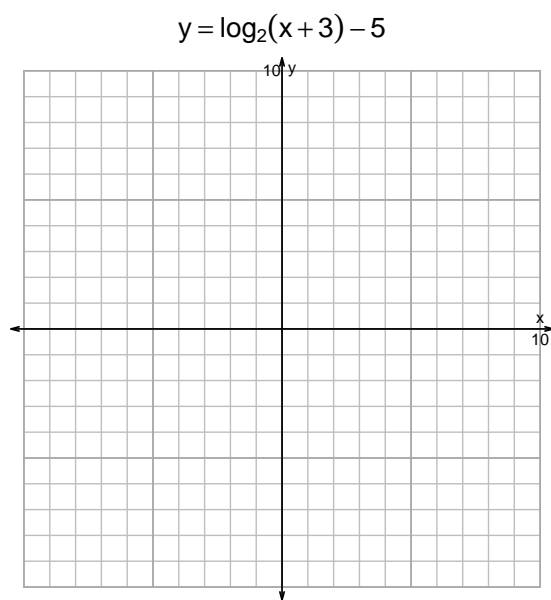
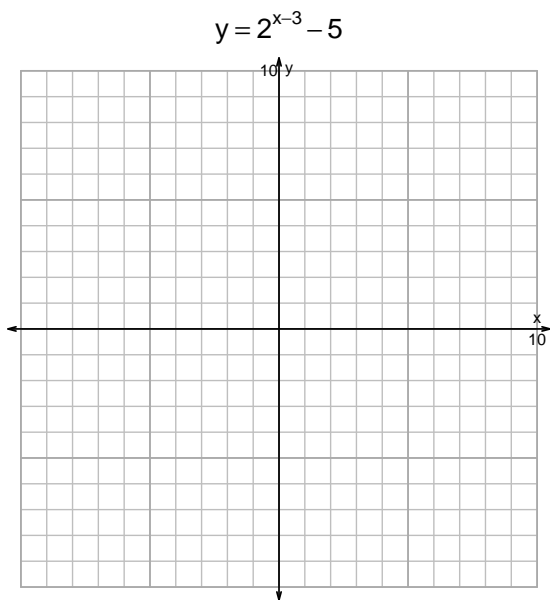


Name: _____

Date: _____

s18QUIZ: EXP LOG (QUIZ v208)

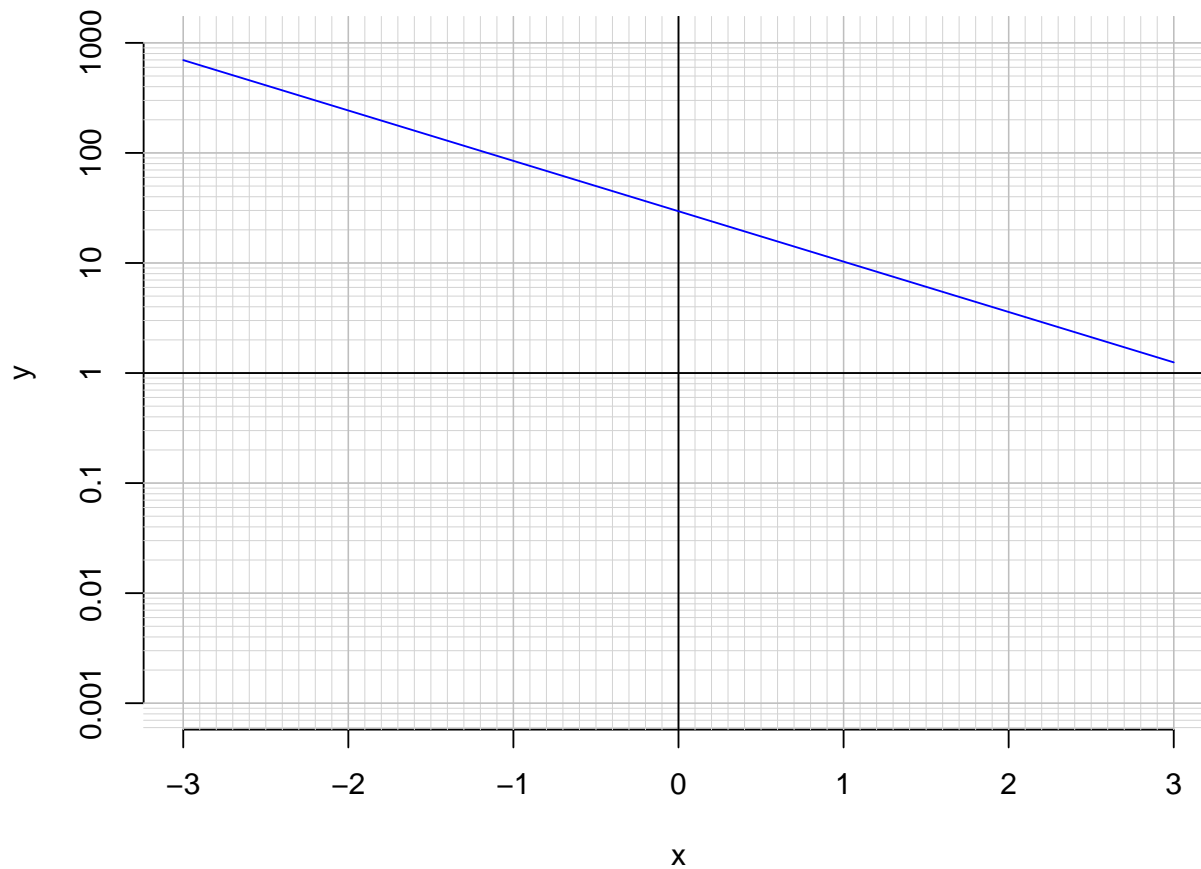
1. Graph $y = 2^{x-3} - 5$ and $y = \log_2(x + 3) - 5$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$23 = \left(\frac{3}{5}\right) \cdot 2^{-4t/7}$$

3. An exponential function $f(x) = 29.5 \cdot e^{-1.05x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(-0.5)$.

- b. Express $f^{-1}(x)$, the inverse of f .

- c. Using the plot above, evaluate $f^{-1}(300)$.